

**PROCEDURE FOR THE VERIFICATION OF THE No. 325
NOZZLE FLOW RATE
ASTM C 430**

A. PURPOSE

The purpose of this procedure is to verify the flow rate of the No. 325 nozzle. This verification is performed semi-annually.

B. APPARATUS REQUIRED

1. Container.
2. Calibrated scales capable of reading within the desired range.
3. No. 74 0.022 inch drill.
4. Stop Watch.

C. PROCEDURE

1. Place the container on the scales and “tare” the scales to zero.
2. Establish the water flow through the nozzle at 10 psi.
3. Start the stop watch and place the empty container under the nozzle flow at the same time.
4. At one minute, remove the container and water from under the flow.
5. Weigh, measure, and record the weight of water in grams.
6. Repeat Steps 2-5 two (2) more times.
7. Find the average of the three (3) checks.
8. Record this as the flow rate of the nozzle.
9. Verify that a No. 74 drill can be inserted into any of the holes in the nozzle.

D. TOLERANCE

The tolerance is as set in the Manual of Cement Testing, Section 8. The Flow Rate should be between 1500grams and 3000 grams.

EQUIPMENT VERIFICATION RECORD

Verified By: _____	Date: _____
Equipment: <u>No. 325 Sieve Flow Rate</u>	Location (Lab): _____
Identification No.: _____	Verification Frequency: <u>6 months</u>
Previous Verification Date: _____	Next Due Date: _____
Verification Equipment Used: Container, No.: _____ Calibrated scales, SN: _____	
No. 74 Drill Bit Stop watch, SN: _____	
Verification Procedure: <u>(In-house) OMR-CVP-38A / ASTM C 430</u>	

A. Empty container weight _____

B. Water and container weight (1) _____ (2) _____ (3) _____

Weight of water B – A (1) _____ (2) _____ (3) _____

Flow rate of nozzle is average of the 3 checks _____